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Quarterdeck

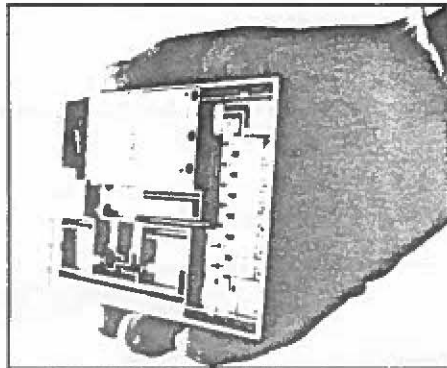
*a weekly publication serving
the Naval Postgraduate School*

JULY 27, 1984

MICRO NEWS -Inside

COMPUTERS FORGE FUTURE AT NPS

The dental and supply offices use it. The registrar, comptroller and civilian personnel rely on it. It is used to conserve energy and to guide the Acania. It provides support for the Quarterdeck staff and NPS researchers probing the frontiers of science. "It" is the computer, and it is changing the present while influencing the future.



The computer first came to NPS in 1954. It was an NCR 102A, described by Roger Hilleary of the Computer Center as being "like a large cash register." In 1960 the school acquired a fully programmable computer with the installation of the first machine sold by CDC. This system, which was about 100 times faster than the NCR, required about two hours to solve a typical engineering problem. In 1968 NPS acquired an IBM 360/67 before the model departed from the experimental stage of development. The last change took place in 1981 when the 360 was replaced by an IBM 3033 with three central processing units. The same engineering problem which once required two hours on the CDC can now be solved in approximately one minute using the 3033.

For the faculty and students, this has introduced important changes, according to Aeronautics Dept. Prof. "Red" Layton. "In the class a lot of time used to be spent developing approximate solutions to difficult problems, like aircraft stability," Layton noted. "These problems can now be solved on small computers (and programmable calculators). The week that used to be spent in explaining this (methods of approximate solutions) can now be devoted to covering other materials," stated Prof. Layton.

The computer has enabled researchers to achieve greater accuracy in their calculations and the introduction of computer graphics has offered new insight into old problems.

"Many things are more easily understood when you can see what it looks like. You can do perspective things that would take you forever on a blackboard," commented Prof. Layton.

The computer has proven its value in both daily operations of administration, supply, public works and other support areas as well as its role as a fundamental tool in naval research. And the future of computing will be very diverse. (continued page four)

news briefs



MENNEKEN RESEARCH AWARD

Distinguished Prof. Donald P. Gaver, Jr., of the Department of Operations Research, recently received the 1984 Carl E. Menneken Research Award from the NPS chapter of the Sigma Xi Scientific Research Society.

Dr. Gaver received this honor for his "many contributions to research in probability and statistics, which have been applied to a variety of real-world problems, including oceanography, meteorology, nuclear engineering, reliability of safety systems, and C3 systems."

Prof. Gaver has authored more than 100 scholarly publications, a textbook and chapters of many other books and holds a Ph.D. in mathematics from Princeton University. He joined the NPS faculty in 1970 and was named a distinguished professor in 1982.

From the Provost...

This issue begins the appearance in the "Quarterdeck" of "Micro News" under the editorship of Prof. Gordon Latta, chairman of the Mathematics Department.

The microprocessor is important to all of us both personally and professionally. It is also fast moving. A number of universities have announced ambitious microprocessor plans. As an activity of the federal government, we have special problems in this regard and some of these problems are being examined at this time. In the meantime, "Micro News" is intended to be of interest to the entire NPS community--students, faculty and staff.

"RED" THE BARBER

In 1931, a small red-haired six year old boy, his mother and three younger siblings left their small farm in Makone, Missouri and hitch-hiked to Dallas, Texas.

The family hoped to escape the lean times of the depression and stayed with the mother's sister. At night they found warmth in haystacks and accepted a helping hand when it was offered. Howard "Red" Davis was that small boy. Today he is a barber at NPS.

In his 57 years Red has experienced many things. In 1945 he joined the Merchant Marine and worked long hours at different jobs on tankers.

"I liked the Merchant Marine," Davis said, "I saw and did a lot. The longest time I ever spent at sea was 13 months on the Charles S. Jones, a small turbine ship."

In 1950, Red was drafted into the Army. After an honorable discharge, he went to San Francisco and attended barber school, graduating in 1953.

"I wanted something easy to do, so I went into barbering," he said.

Red began his new career at Fort Ord.



"Red" Davis with a younger customer.

"It's just like being in a beauty shop. Some women are better than others. It's the same with men," he said.

Since his arrival at NPS in November 1962, Red has seen the signs of the times change.

"The hair styles have changed, from short to long to short. When the Beatles were accepted, so was the long hair. Students were getting their hair cut every five, six weeks. Now, they have their hair cut every two or three weeks. They (the men) weren't as squared away as they are now. Ten years ago the women were more squared away than the men," Davis said.

For the last 22 years, Red has seen faces come and go, and some return.

"I remember the Commodore as a student. He attended the Postgraduate School twice, you know. Things have changed for the better since he took over. He has cleaned up the place. He gets around more than the others did and he tries to know everyone," Davis said.

Able to retire now, Red will continue working.

"I'm not getting rich, but I'm glad I chose barbering. If I had to do it over there is nothing I would change," he said. -SN Paula Masci

SUPERVISOR'S ASSN LUNCHEON

The NPS Supervisors' Association is sponsoring a luncheon in the La Novia Room today at 1130 to discuss a proposal to establish an additional optional retirement plan.

The luncheon program will discuss how a deferred compensation plan could be structured to fit the federal system; how this plan could be tested at the school; and an update on congressional action on the retirement system. Several speakers have been scheduled to address these issues.

All position managers, department chairpersons, department heads and curricular officers are invited to attend.

GOLF CLINIC FOR DEPENDENT BEGINNERS

A golf clinic sponsored by the Recreation Office will be conducted August 13 - 15 for NPS wives and children. Children between the ages of 8 - 12 must be accompanied by a parent. Children over 12 need not be accompanied by a parent.

EXERCISE CLASS LOWERS PRICE AT NPS

The Monterey Peninsula YWCA is currently sponsoring an exercise class at the NPS gymnasium through the NPS Recreation Office. The class is meeting every Monday and Wednesday evening through August 29.

Cost for the classes has been lowered to \$1 per class for athletic membership cardholders. Payment may be made each night at the gym.

The class is taught by Lisa Heglund, an International Physical Fitness Association instructor, and is designed to improve flexibility, muscle-tone, and heart-rate in an all-over conditioning program.

For more information, call the Recreation Office at ext. 2466.

news briefs

CLASSIFIED ADS

Beginning with the August 10 edition, the "Quarterdeck" will publish a limited number of classified ads each week. The ads will be limited to three published lines, must be placed by NPS personnel (faculty, students, staff) and be non-commercial in nature.

Ads must be placed in person and will be taken on a first-come, first-served basis starting at 0800 on Friday mornings in the Public Affairs Office. Ads will generally be limited to one run.

NEW SHOULDER PATCH FOR NPS FIRE FIGHTERS

For the past eight years an American Eagle has been the insignia on the NPS Fire Department's shoulder patch. Today, through the creative efforts of Fire Fighter Michael Feher, a bit of California history now serves as the insignia.

Feher designed the new patch with the old Hotel Del Monte as the department insignia.

SUPPLY REQUISITION DEADLINE

The Supply Department has set requisition deadlines for using FY84 funds. The following deadlines apply:

ESTIMATED VALUE

\$10,000 - \$25,000 - Aug 1st
\$1,000 - \$999 - Sept. 3rd
\$1.00 - \$998 - Sept. 16th

Standard Stock and Ready Supply Store requisitions will be accepted until Sept. 24, 1984.

For more information, refer to NAVPGSCOL Notice 4235, dated March 7, 1984.

THE QUARTERDECK

"The Quarterdeck" is published weekly with appropriated funds in accordance with NPPR P-35. Views and opinions expressed herein are not necessarily those of the Department of the Navy.

Superintendent: COMO R.H. Shumaker, USN
Provost: Dr. David A. Schrady
Public Affairs Officer: LCDR N.B. Thompson
Editor: JO2 Patrick E. Winter, USN
Copy Editor: JO2 Michele S. Browning, USN
Writer: SN Paula M. Masci, USN
Printers: EMD Print Shop

We solicit material in written form, but reserve the right of editorial control. Material should be submitted to the Public Affairs Office, Room 025, Herrmann Hall. Deadline for submission of material for publication is 12 noon, Monday.

MICRO NEWS

by Prof. Gordon E. Latta

This brief newsletter in the "Quarterdeck" will serve to introduce MICRO NEWS. From time to time, (hopefully every month) we plan to report on items of interest concerning microprocessors at the Naval Postgraduate School (NPS).

A question frequently asked concerns the availability of a "deal", whereby students or faculty/staff could purchase one of a select number of microprocessors at a respectable discount.

As of this moment, the NPS administration is actively pursuing this feasibility, one possible scenario being via the hobby computer club as a non-profit organization.

In the interim, the undoubted best buy for the military or DOD employee is the Heath-Zenith 100, whereby \$1,799 purchases a dual 816 processor, dual double-sided disk drive 192K RAM system, plus one operating system. The 16-bit chip in this machine is the 8088, the same chip in the IBM PC, and apart from certain hardware incompatibilities (e.g. graphics), the Z100 will run most IBM PC software.

Another problem of wide concern is what machine to buy, either personally or via government/research funds. The discerning student will probably opt for a machine similar to those he is likely to encounter at his next post, given that his crystal ball is working. Based on current reports from recent graduates, returnees from experience tours, and asking questions, there seems to be a fair number of (a) Apple II (+s and e's) with Z-80 cards, (b) Heath-Zenith 100's (c) IBM PC's. The reasonable cost of the first two pretty well guarantees that these machines will survive for some time. That means CP/M, CPM86 and MSDOS will also be around for quite a while, and are good things to come to terms with as far as operating systems go. UNIX is mentioned more and more, although good implementations on, microprocessors are still apparently in the future.

A final item for this week is that of availability of micros on base for general student/faculty use. There are numerous labs with micros attached, but only for particular departmental (dedicated) use. That leaves only the Math Lab on the third floor of Ingersoll, with some 16 machines of various kinds (Apple, Northstar, IBM PC), open 24 hours to all persons aboard.

Any topics you would like to have discussed, questions that might be answered, comments you would like to make, should be addressed to me, Prof. Gordon E. Latta, (53Lz).

NPS COMPUTER HOBBY CLUB

There is an active NPS Computer Hobby Club that provides a variety of services to its members.

The club, which exists to promote the use and enjoyment of microcomputers, meets at 1900 the first Thursday of each month. There are special interest groups (i.e., for various types of computers) which meet separately and provide assistance to people just getting started or interested in acquiring a microcomputer.

The club maintains a large CPM/MSDOS/Apple software library from which members can draw. It also maintains a disc on the NPS mainframe computer containing educational articles and helpful execs, which make the mainframe "friendlier" and helps members' computers talk to the mainframe via modem.

Membership, which is \$15 per year, is open to all students and U.S. government military and civilian personnel. Interested individuals may contact the club treasurer, LCDR John Dove, SMC 2219, or phone 372-9085.

The club president is LCDR Rob King.

"CIVISCOOP"

NEW EMPLOYEES:

Naval Postgraduate School

Vasl Lichte	Clerk-Typist	Continuing Ed Offc
Candi C. Cochran	Research Tech	Admin Sciences
William E. Ericson	Boatswain	Oceanography

New Faculty

David G. Huey	Adj't Tchg Prof	Admin Sciences
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Fleet Numerical Oceanography Center

Laura K. Wrede	Computer Systems Programmer	Software Div
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Navy Center for International Science & Technology

Lynn M. Newton	Secretary	Offc of Dir
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MERIT STAFFING ANNOUNCEMENTS

Applications for the following vacancies are now being accepted in the Civilian Personnel Office. Consult the Merit Staffing Program announcements in your department for further information.

Position & Announcement #	Location	Grade	Closing Dates
Offset Duplicating Press Operator 84-55	Educational Media	WG-4417-07	07-27-84
Clerk-Typist 84-58	Meteorology NPS	GS-322-04	07-29-84
Employee Relations Clerk (Typing)	Civ Pers Offc NPS	GS-0203-4/5	07-30-84

AWARDS

Quality Increase

Gwendolyn L. Williams, clerk-typist in Admin Sciences

COMPUTERS FORGING FUTURE (cont'd from page one)

Prof. Dave Hsiao, chairman of the Dept. of Computer Science, reflected on the future of computers at NPS. "There will be three types of computer systems. One will be centered around very powerful mainframes, or super-computers," he said.

"That system is supported by the computer center for very intensive computations," Hsiao continued. "The second type is geared for tailor made instructions, student thesis work and faculty research. These are usually centered around several local networks of minicomputers, usually supported by the department, academic programs and perhaps some interdisciplinary groups," noted Hsiao.

The third type will revolve around personal computers, especially those which can be connected to the computer center facilities or a department's local network via a smart modem.

To help people understand and better utilize personal computers, a monthly newsletter reporting on issues, concerns and developments in microprocessing will be made available through the Quarterdeck. This will provide a forum for exchange of relevant information and a source of important computer news. And, watch the Quarterdeck for future articles on personal computing. -John Sanders

CALENDAR OF EVENTS

JULY

-27-

1700-1900

SUPERINTENDENT'S RECEPTION FOR
RECENTLY REPORTING STUDENTS,
BARBARA MCNITT BALLROOM

-31-

1110

SEMINAR

"CONCURRENCY CONTROL USING LOCKS
IN DISTRIBUTED DATABASES,"
BY OURI WOLFSON,
BELL LABS., MURRAY-HILL, N.J.
SP-341

1510

SEMINAR

"OVERVIEW OF THE DARPA STRATEGIC
COMPUTING PROGRAM,"
BY DR LYNN CONWAY,
CHIEF SCIENTIST/ASST DIRECTOR
FOR STRATEGIC COMPUTING DEFENSE
ADVANCED RESEARCH PROJECT AGENCY
(DARPA), SP-421

1510

SUPERINTENDENT'S GUEST LECTURE:
"STRESS,"

BY DR RONA H. HALPREN, PH.D.
PSYCHOTHERAPIST
(POC: CDR MASSICA, EXT 2514)

AUGUST

-1 TO AUG 4-

VISIT BY

COMO JOHN R. SEESHOLTZ, USN,
DIRECTOR OF NAVAL OCEANOGRAPHY
DIVISION (OP-952)
FOR AIR-OCEAN SCIENCE CURRICULAR
REVIEW
(POC: CDR IHLI, EXT 2044)

VISIT BY CAPT J.M. WRIGHT, USN,
MANPOWER OFFICER
FOR AIR-OCEAN SCIENCE
CURRICULAR REVIEW
(POC: CDR IHLI, EXT 2044)

-1 TO 8-

0810

AVIATION SAFETY COMMAND COURSE,
HE-E313

-2-

VISIT BY ADM SUDOMO,
MINISTER OF MANPOWER, INDONESIA
FOR NPS ORIENTATION
(POC: DR MCGONIGAL, EXT 2186)

VISIT BY THE HONORABLE B. CHADIR
CONSUL GENERAL OF INDONESIA
FOR NPS ORIENTATION
(POC: DR MCGONIGAL, EXT 2186)

1510

SEMINAR

"DIRECTORY-

FREE DYNAMIC HASH FILES,"
BY C. THOMAS WU,
DEPT OF ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE,
NORTH WESTERN UNIVERSITY
SP-117